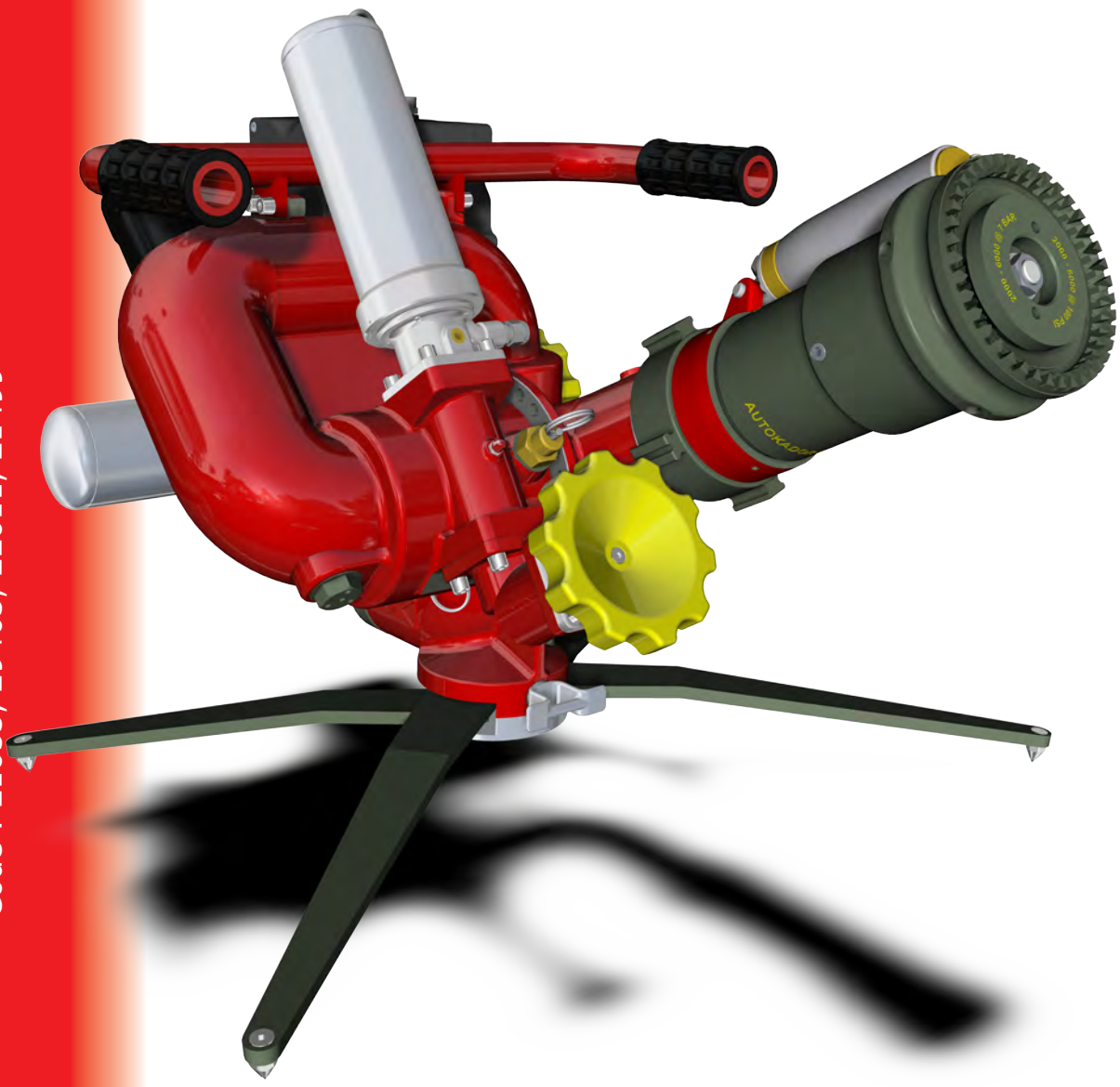
POK

OMNEX

LPM100

Code : 21653, 29403, 22011, 21499



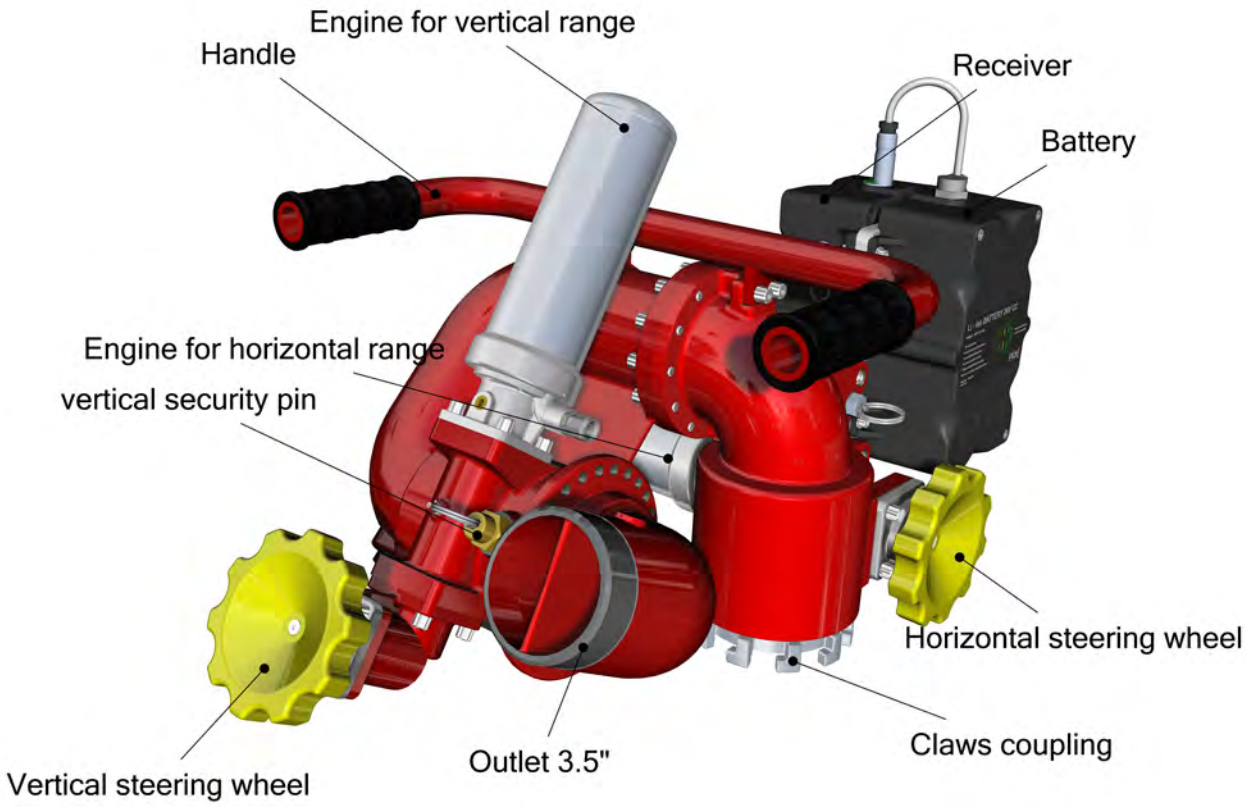
- Presentation
- Options
- Overall dimensions
- Exploded view
- Bill of materials
- Warning
- User guide
- Maintenance

Please read this manual before using the product

POK SA - ZI Les Guignons - 10400 Nogent-sur-Seine - FRANCE
Tel : 03 25 39 84 78 - Fax : 03 25 39 84 90 - Email : info@pok.fr - Site Web : www.pok.fr

Characteristics included in this document may change form the product you've received. Contact our sales department for further details.

Presentation



Working pressure : 7 bar (100 PSI)
Max. working pressure : 16 bar (235 PSI)
Max. flow rate : 7500 l/min (2000 GPM)
Vertical range : +30° à +90°
Horizontal range : 360°
Power supply : 24V 15A

POK SA - ZI Les Guignons - 10400 Nogent-sur-Seine - FRANCE
Tel : 03 25 39 84 78 - Fax : 03 25 39 84 90 - Email : info@pok.fr - Site Web : www.pok.fr

Rev-A : 22/03/12

Characteristics included in this document may change form the product you've received. Contact our sales department for further details.

Doc 1830 EN

Options

• Mobile stand :

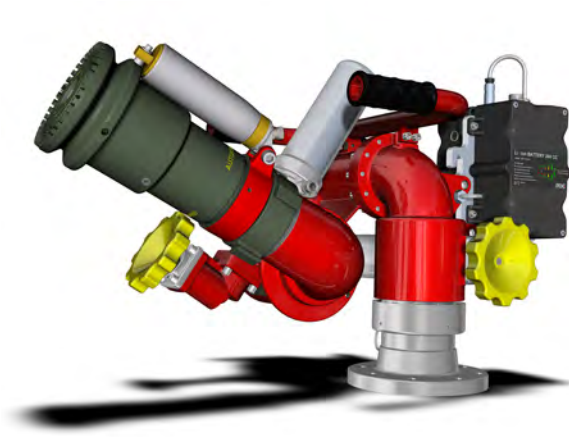
The mobile stand allow to transport easily the LMP100 and to use it anywhere. It can put into service quickly with the claws coupling.

Complete monitor code (without nozzle) : 21653
Upper part code : 29403
Stand : 21499

Weight (complete monitor, without nozzle) : 38kgs
Stand weight : 6.3 Kgs

Note : The inlet coupling has to be defined while ordering.

• Flange adaptor :



Flange adaptor 4'' ASA 150.

Upper part code : 29403
Flange adaptor : 22011

Weight (complete monitor) : 35.7kgs
Stand weight : 4 Kgs

Note : Other flange type are available, contact our sales service for further details.

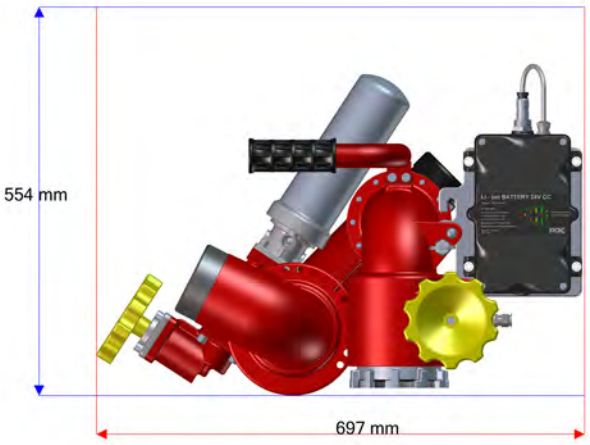
Note : Both stand type may be changed easily and quickly with the claws coupling.

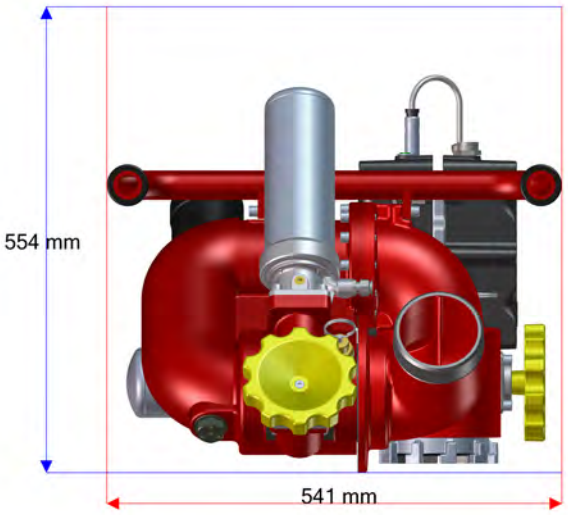
POK SA - ZI Les Guignons - 10400 Nogent-sur-Seine - FRANCE
Tel : 03 25 39 84 78 - Fax : 03 25 39 84 90 - Email : info@pok.fr - Site Web : www.pok.fr

Characteristics included in this document may change form the product you've received. Contact our sales department for further details.

Overall dimensions

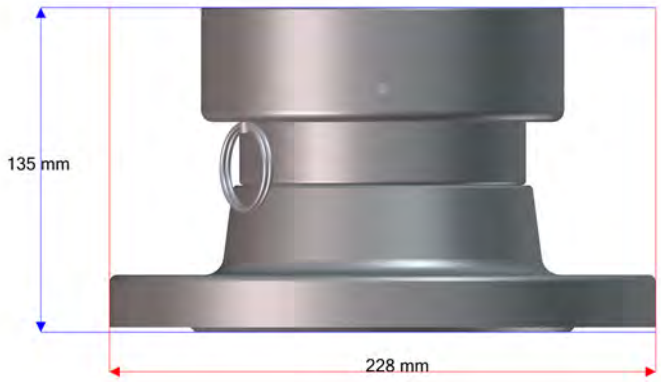
• Upper part :





Weight : 31.6 kgs

• Flange adaptor :



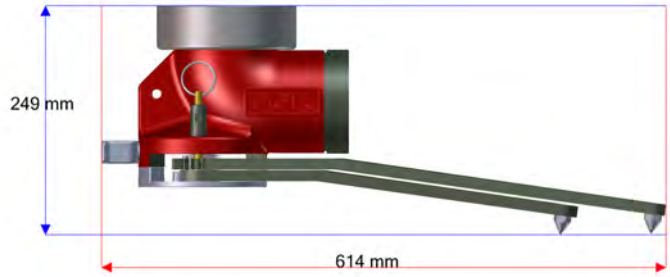
Weight : 4 kgs

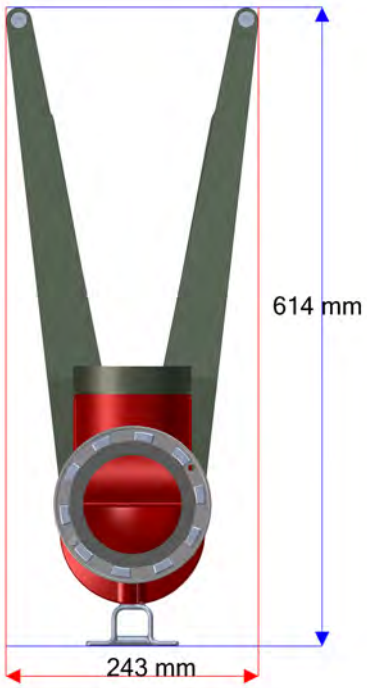
POK SA - ZI Les Guignons - 10400 Nogent-sur-Seine - FRANCE
Tel : 03 25 39 84 78 - Fax : 03 25 39 84 90 - Email : info@pok.fr - Site Web : www.pok.fr

Characteristics included in this document may change form the product you've received. Contact our sales department for further details.

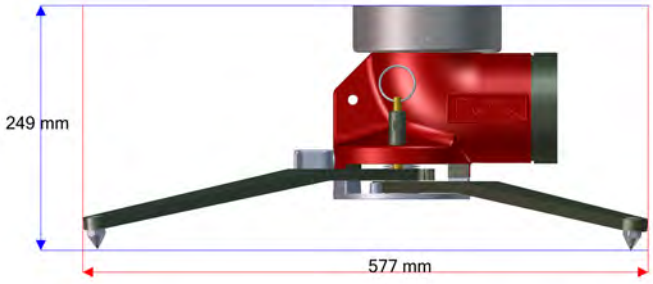
Overall dimensions

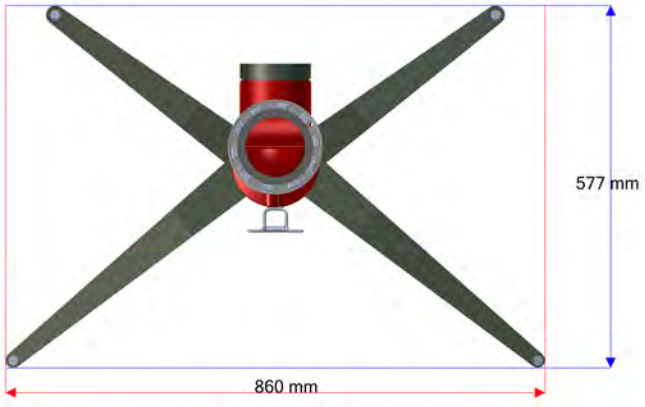
- **Mobile stand (folded) :**





- **Mobile stand (unfolded) :**



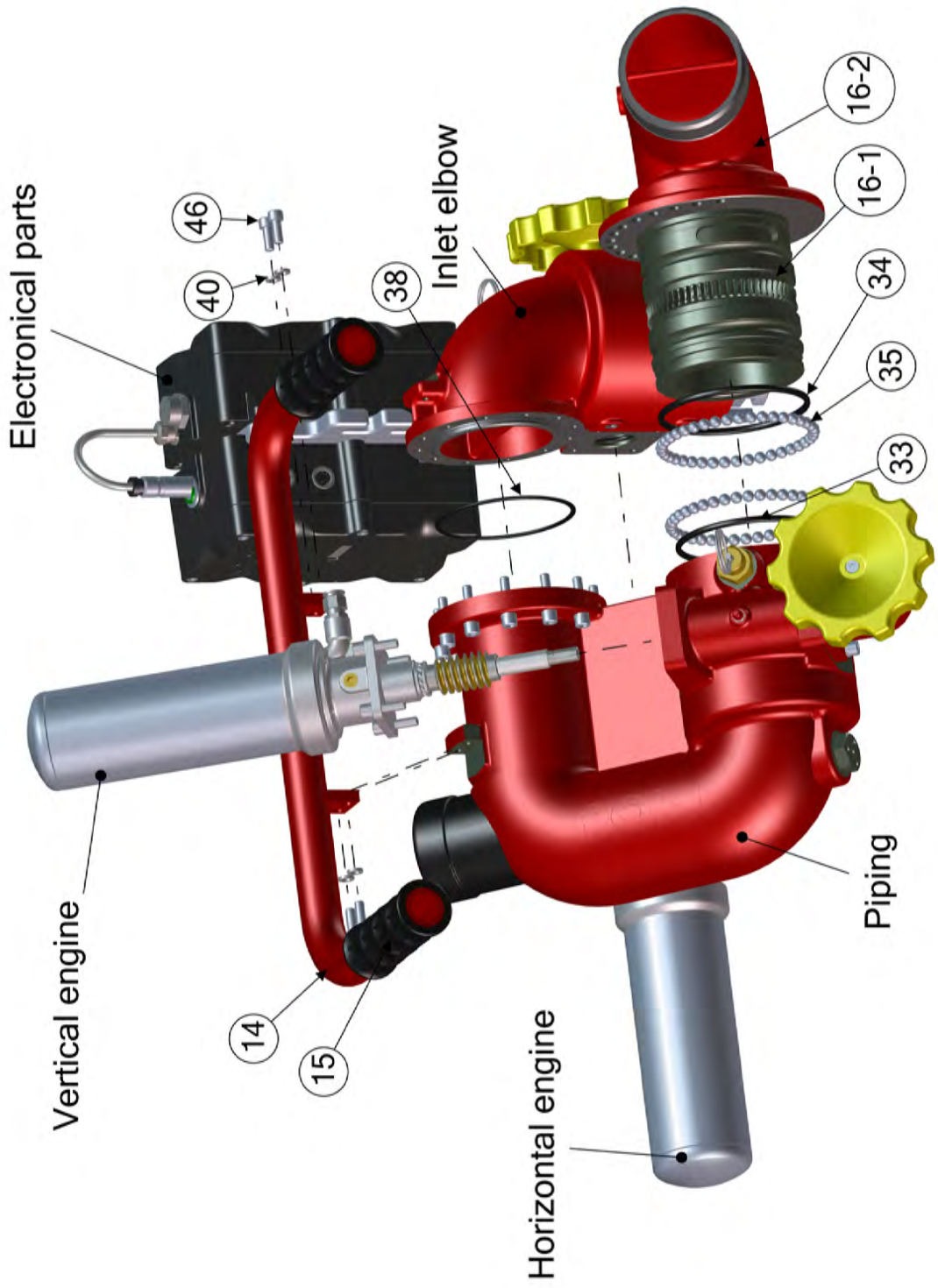


Weight : 6.4 kgs

POK SA - ZI Les Guignons - 10400 Nogent-sur-Seine - FRANCE
Tel : 03 25 39 84 78 - Fax : 03 25 39 84 90 - Email : info@pok.fr - Site Web : www.pok.fr

Characteristics included in this document may change form the product you've received. Contact our sales department for further details.

Exploded view
Complete monitor



POK SA - ZI Les Guignons - 10400 Nogent-sur-Seine - FRANCE
Tel : 03 25 39 84 78 - Fax : 03 25 39 84 90 - Email : info@pok.fr - Site Web : www.pok.fr

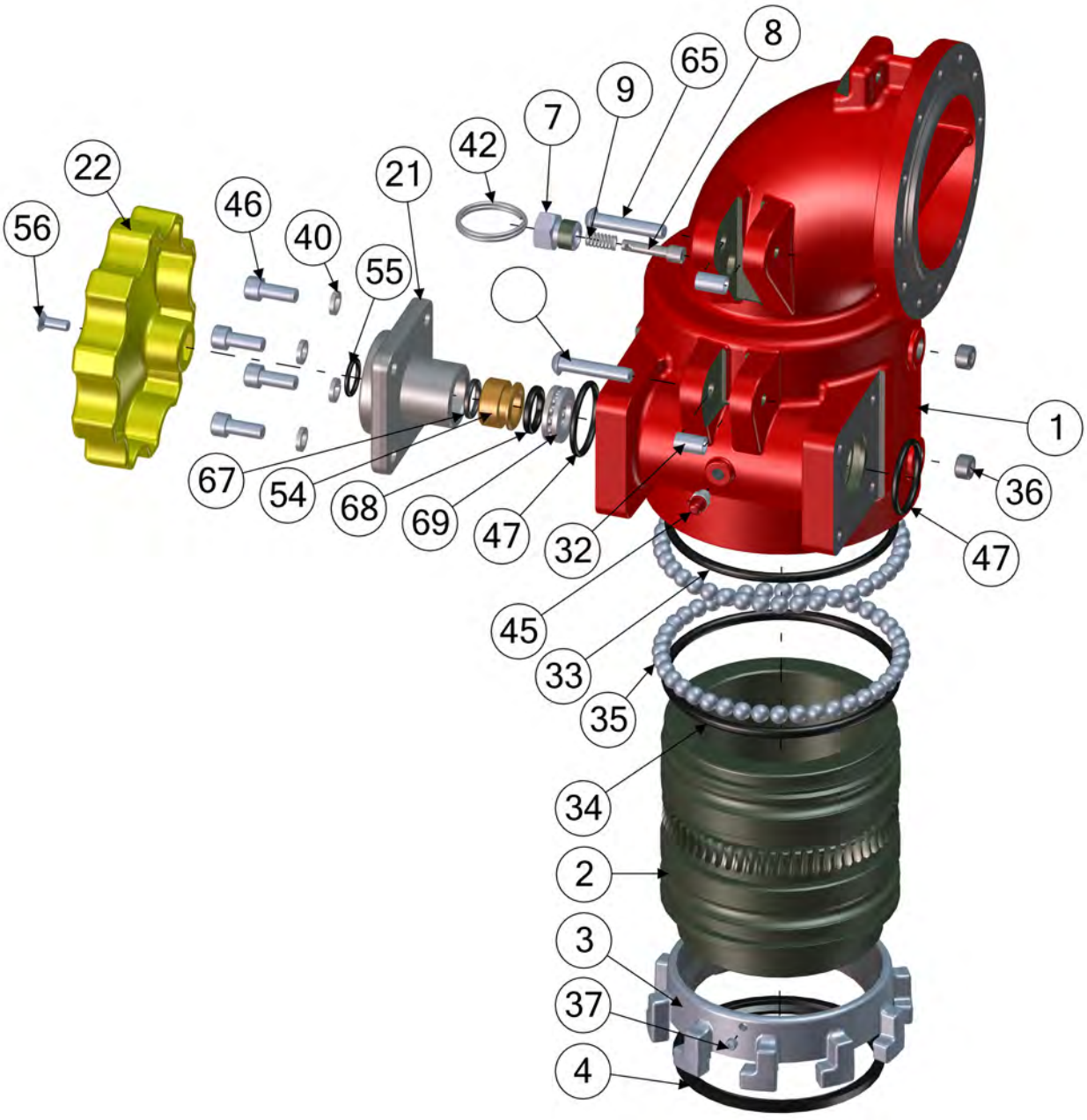
Rev-A : 22/03/12

Characteristics included in this document may change form the product you've received. Contact our sales department for further details.

Doc 1830 EN

Exploded view

Inlet elbow



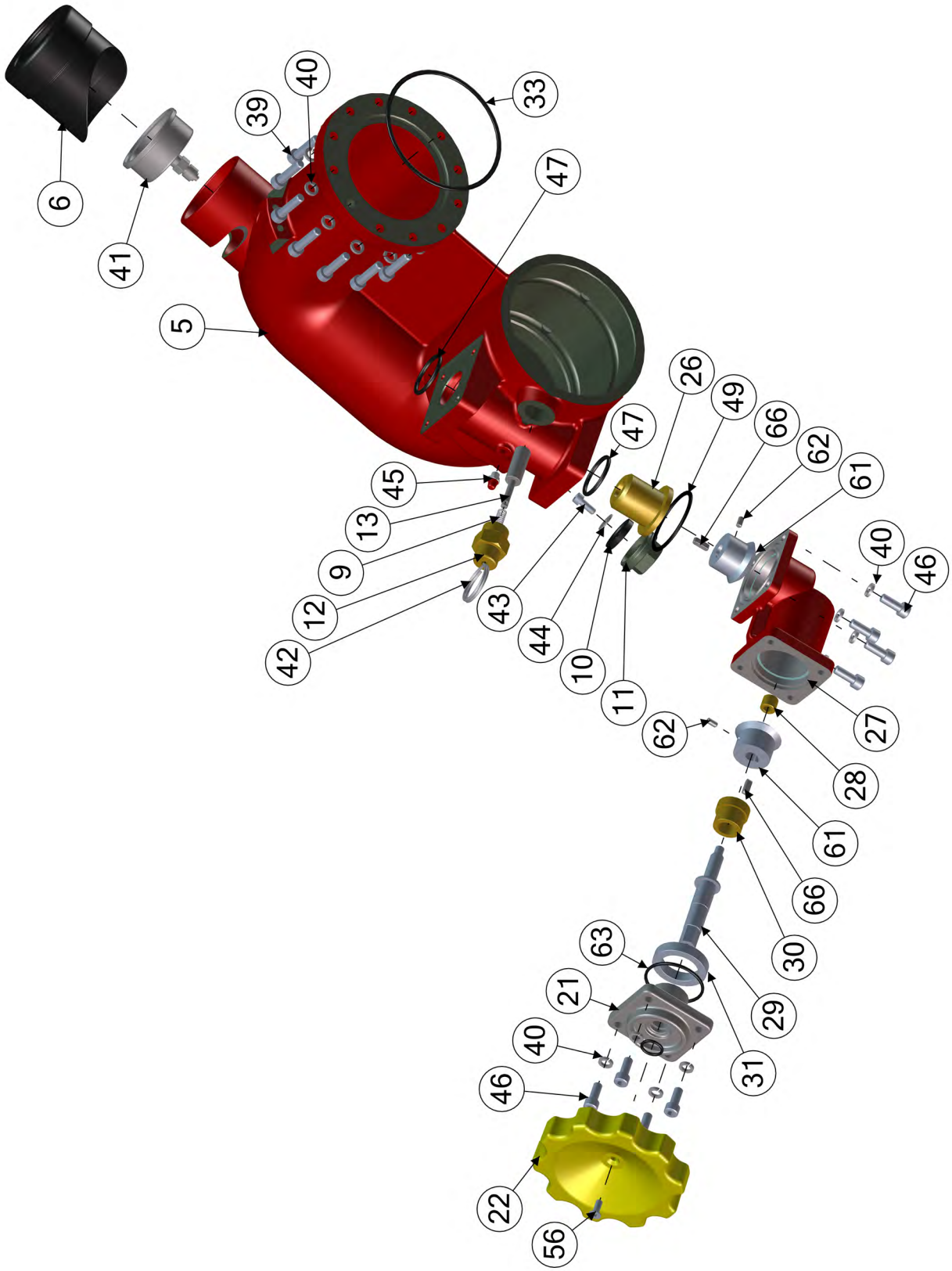
POK SA - ZI Les Guignons - 10400 Nogent-sur-Seine - FRANCE
Tel : 03 25 39 84 78 - Fax : 03 25 39 84 90 - Email : info@pok.fr - Site Web : www.pok.fr

Rev-A : 22/03/12

Characteristics included in this document may change form the product you've received. Contact our sales department for further details.

Doc 1830 EN

Exploded view
Piping

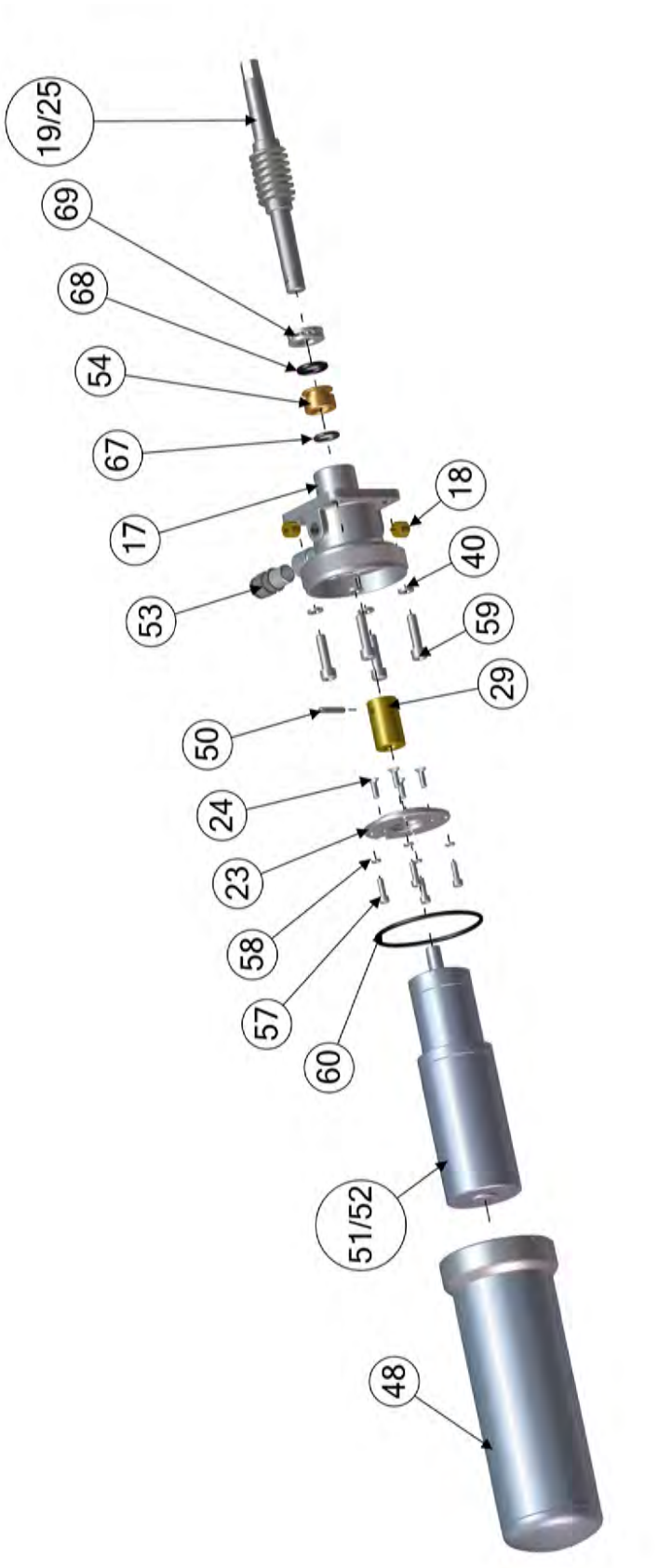


POK SA - ZI Les Guignons - 10400 Nogent-sur-Seine - FRANCE
Tel : 03 25 39 84 78 - Fax : 03 25 39 84 90 - Email : info@pok.fr - Site Web : www.pok.fr

Rev-A : 22/03/12

Characteristics included in this document may change form the product you've received. Contact our sales department for further details.

Exploded view
Engine



POK SA - ZI Les Guignons - 10400 Nogent-sur-Seine - FRANCE
Tel : 03 25 39 84 78 - Fax : 03 25 39 84 90 - Email : info@pok.fr - Site Web : www.pok.fr

Rev-A : 22/03/12

Characteristics included in this document may change form the product you've received. Contact our sales department for further details.

Doc 1830 EN

Bill of materials

Inlet elbow/piping/engine

REP	QTE	DESCRIPTION	REF
1	1	Horizontal elbow	21601
2	1	Socket (horizontal)	21662
3	1	Claws coupling	21500
4	1	Claws coupling gasket	25360
5	1	Piping	21641
6	1	Gauge sheath	10907
7	1	Rotation stop cover	10918
8	1	Battery fixaxion stop	24589
9	2	Spring for rotation limit	10919
10	1	Automatic flush membrane	10843
11	1	Body for automatic flush	10842
12	1	Rotation limite cover	21729
13	1	Rotation limit stop	21752
14	1	Handler support	21616
15	2	Handle cover	12021
16	1	Outlet elbow	21618
17	2	Engine support	17794
18	4	6 Sides cap 1/4 NPT	16700
19	1	Endless screw (horizontal screw)	13777
20	2	Junction sleeve	14047
21	2	Squarre flange	13784-2
22	2	Steering wheel	21679
23	2	Engine flange	17777
24	8	Screw FHC M5-16	VTFHC M5-16
25	1	Endless screw for 90° angle (vertical screw)	21680
26	1	Centring bearing for endless screw	21678
27	1	90° Elbow	21674
28	1	Bearing for wheel axis (gears side)	21676
29	1	Steering wheel axis	21675
30	1	Centring bearing for wheel axis (wheel side)	21730
31	1	Centring ring	21677
32	2	Sleeve for M8 Screw	25464
33	2	Gasket R52	8252
34	2	Gasket Ø114,3 x Ø 5,7	26216
35	160	Ball Ø10 en inox	16178
36	4	Cap HC 1/4 BSP in stainless steel	16700
37	2	Screw STHC TR M6-6	VSTHC TR M6-6
38	1	Gasket Ø107,55 x Ø3,53	26215
39	12	Screw CHC M8-35	VCHC M8-35

POK SA - ZI Les Guignons - 10400 Nogent-sur-Seine - FRANCE
Tel : 03 25 39 84 78 - Fax : 03 25 39 84 90 - Email : info@pok.fr - Site Web : www.pok.fr

Rev-A : 22/03/12

Characteristics included in this document may change form the product you've received. Contact our sales department for further details.

Doc 1830 EN

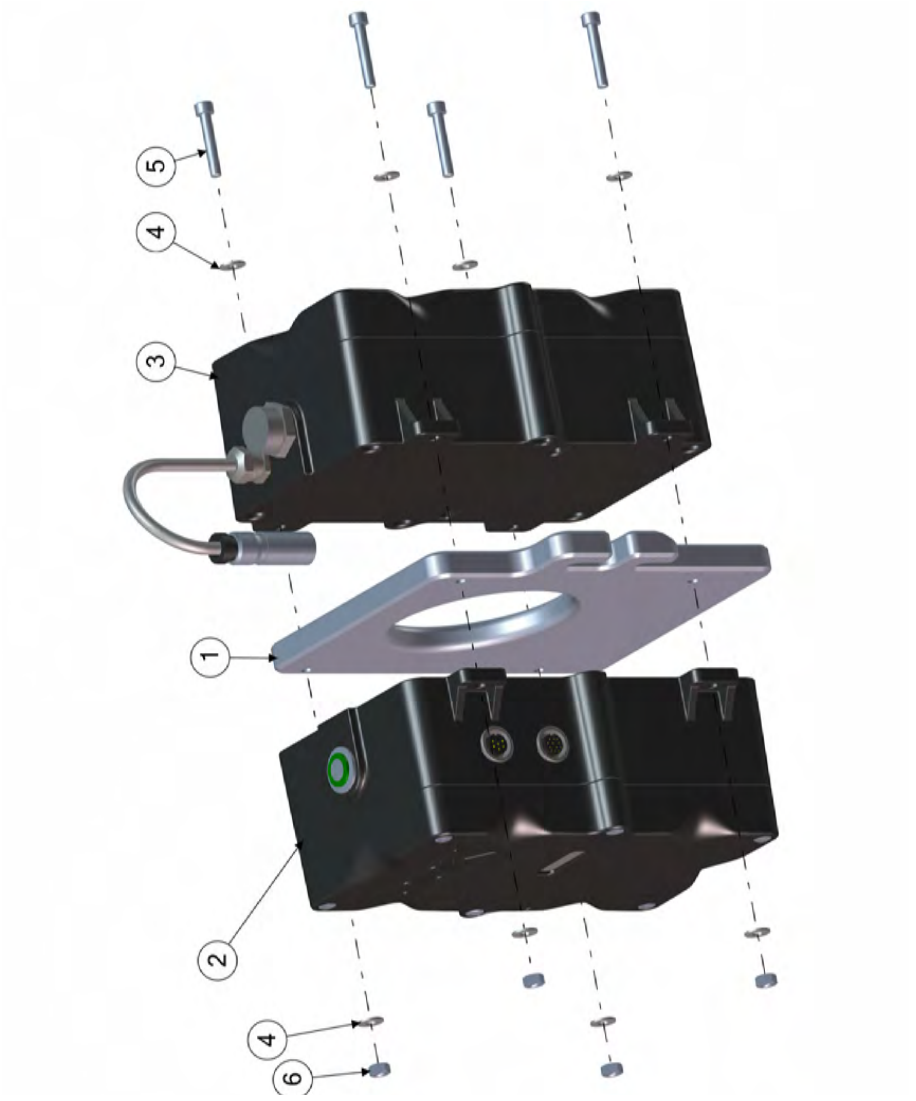
Bill of materials

Inlet elbow/piping/engine

REP	QTE	DESCRIPTION	REF
40	36	Washer W8	RGW8
41	1	Gauge	16298
42	2	Ring	2898
43	1	Screw CHC M6-16	VTCHC M6-16
44	1	Washer L6	RM6
45	2	Greaser Ø8	GRD 8x125
46	14	Screw CHC M8-25	VTCHC M8-25
47	4	Gasket R25	8225
48	2	Engine cap	17795
49	2	Gasket Ø53,57 x Ø3,53	26217
50	2	Pin G7 5 x 26	GG7 5x26
51	1	Engine GR 63 x 55 - PLG 52 gears ratio 30 or 36	26050
52	1	Engine GR 63 x 55 - PLG 52 gears ratio 91,12	26727
53	2	Stuffing box M16 x 1,5 size 4	26352
54	3	Bearing	28355
55	2	Gasket R13	8213
56	2	Screw FHC M6-16	VTFHC M6-16
57	8	Screw CHC M5-16	VTCHC M5-16
58	8	Washer W5	RGW5
59	8	Screw CHC M8-30	VTCHC M8-30
60	2	Gasket Ø85,32xØ3,53	16781
61	2	Cone gears SSB2 - 20 HPC (28433)	26013
62	2	Screw STHC PL M5 - 10	VSTHC PL M5-10
63	1	Gasket Ø50 x Ø3	16809
64	2	Screw CHC M8-20	VTCHC M8-20
65	2	Screw CBHC M8-40	VTCBHC M8-40
66	2	Pin 5x5x16	CL FA 5x5x16
67	3	Gasket R13	8213
68	3	Gasket R15	8215
69	3	Ball stop Ø17	26777
-	3	Engine cable	28415
-	12	Closed ferrule	26714
-	2	Sensors	38037
-	1	Sensor support	28021

Characteristics included in this document may change form the product you've received. Contact our sales department for further details.

Exploded view
Electronic parts



REP	QTE	DESCRIPTION	REF
1	1	Battery and receiver support plate	21671
2	1	OMNEX Receiver	-
3	1	Battery 24V/9Ah Ni-Mh	26646
4	8	Washer Grower M6	RGW6
5	4	Screw CHC M6 - 35	VTCHC 6x35
6	4	Nut H M6	EHM6
-	1	Power supply calbe (battery)	29224
-	1	Receiver battery power supply	26662
-	1	Transmitter power supply	26647

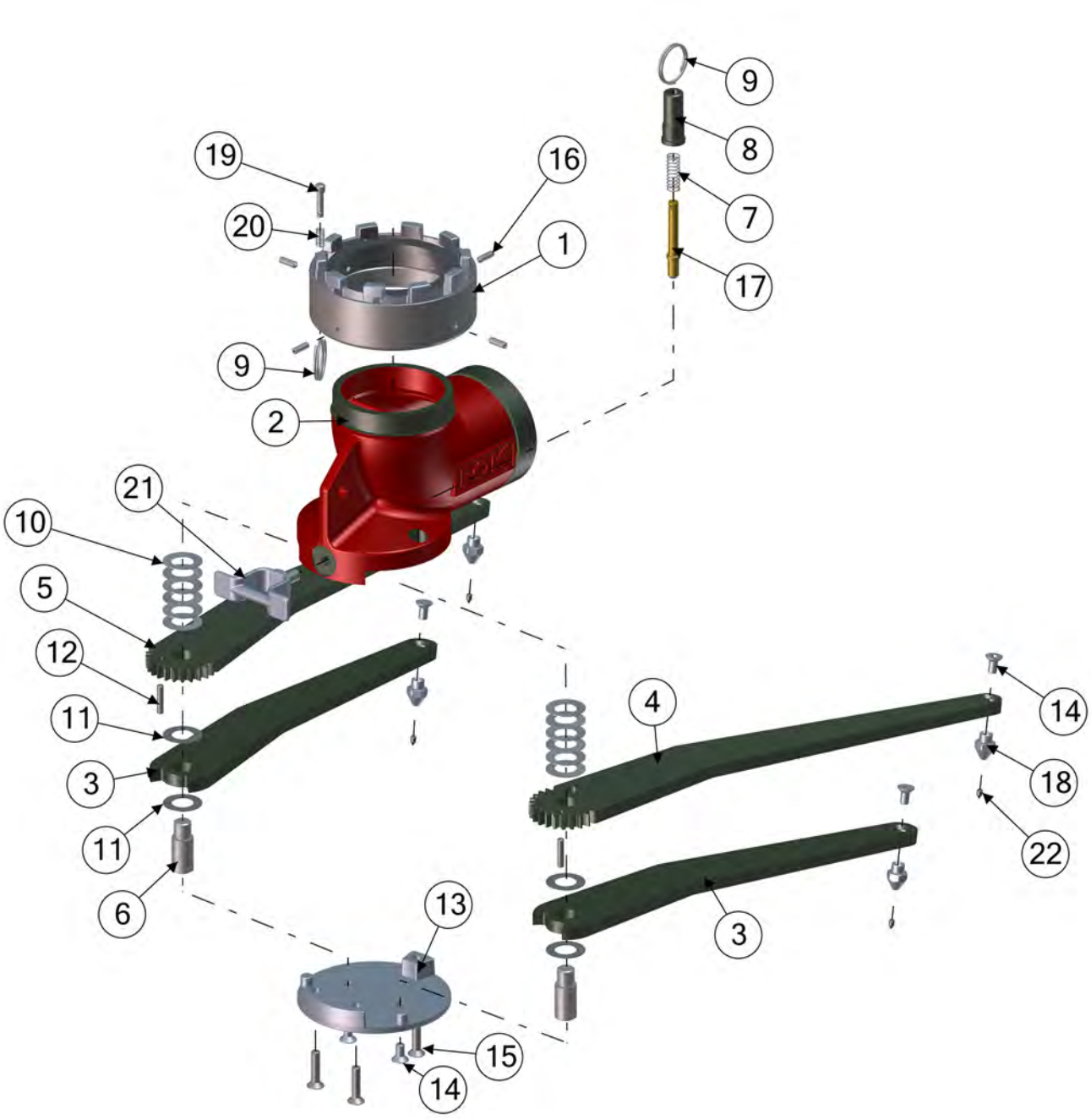
POK SA - ZI Les Guignons - 10400 Nogent-sur-Seine - FRANCE
Tel : 03 25 39 84 78 - Fax : 03 25 39 84 90 - Email : info@pok.fr - Site Web : www.pok.fr

Rev-A : 22/03/12

Characteristics included in this document may change form the product you've received. Contact our sales department for further details.

Doc 1830 EN

Exploded view
Mobile stand



POK SA - ZI Les Guignons - 10400 Nogent-sur-Seine - FRANCE
Tel : 03 25 39 84 78 - Fax : 03 25 39 84 90 - Email : info@pok.fr - Site Web : www.pok.fr

Characteristics included in this document may change form the product you've received. Contact our sales department for further details.

Bill of materials
Mobile stand

REP	QTE	DESCRIPTION	REF
1	1	Claws coupling	23720
2	1	Body	21497
3	2	Rear stabilizing leg	21697
4	1	Front left stabilizing leg	21696
5	1	Front right stabilizing leg	21699
6	2	Stabilizing leg axis	13736
7	1	Locking spring for stabilizing leg	10900
8	1	Locking cover for stabilizing leg	10901
9	3	Ring	2898
10	12	Spring washer CL 20,4-36,6-1,3	16644
11	4	Wedge washer	10916
12	2	Pin stop	21698
13	1	Plate	28189
14	6	Screw FHC M8-16 (center)	VTFHC 8x16
15	3	Screw FHC M8-35 (edge)	VTFHC 8x35
16	4	Screw STHC TR M6-20	VSTHC TR 6x20
17	1	Stabilizing leg locking piston	10899
18	4	Stabilizing leg tip	27417
19	2	Locking claws coupling axis	23719
20	2	Locking spring for claws coupling	10919
21	2	Anchor ring	14895
22	4	Tip	10868
-	1	Security belt	16293

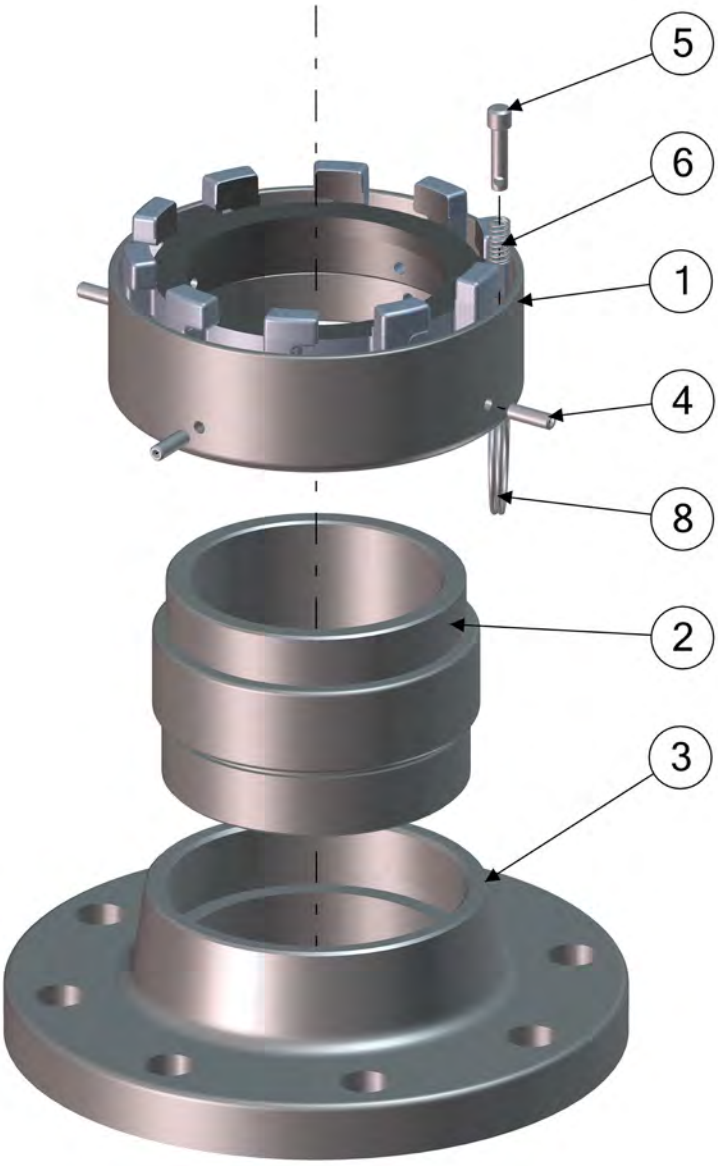
POK SA - ZI Les Guignons - 10400 Nogent-sur-Seine - FRANCE
Tel : 03 25 39 84 78 - Fax : 03 25 39 84 90 - Email : info@pok.fr - Site Web : www.pok.fr

Rev-A : 22/03/12

Characteristics included in this document may change form the product you've received. Contact our sales department for further details.

Doc 1830 EN

Exploded view
Flange adaptor



REP	QTE	DESCRIPTION	REF
1	1	Claws coupling	23720
2	1	Sleeve FM4'' BSP/ FM M110x1,50	29381
3	1	Flange 4'' ASA 150	3681
4	4	Screw STHC TR M6-20	VSTHC TR M6-20
5	2	Locking axis for claws coupling	23719
6	2	Spring	10919
7	2	Ring	2898

POK SA - ZI Les Guignons - 10400 Nogent-sur-Seine - FRANCE
Tel : 03 25 39 84 78 - Fax : 03 25 39 84 90 - Email : info@pok.fr - Site Web : www.pok.fr

Rev-A : 22/03/12

Characteristics included in this document may change form the product you've received. Contact our sales department for further details.

Doc 1830 EN

Warning

• Introduction :

Each monitor is supplied with an identification plate, do not lose it, it may be used for tracking in case of technical support.

• Precaution of use :

This monitor is made to work with a maximum flow rate of 5000 l/min (1350 GPM) and an advised presure of 7 bar (100 PSI). Equipment efficiency is not certain over those value.

The maximum working pressure is 16 bar, reliability is not certain over this value.

Only the staff trained on the equipment and aware of the security rules are allow to use or do maintenance on the monitor.

Please be aware of security rules concerning radiofrequency in the place you are before turning on the equipment. Some places may forbid or restrict the use of devices which emit radiofrequencies

Use of electronic devices may be forbid or restricted depending on the place or conditions you are. (Exemple explosive atmosphere).

It is important to make sure the monitor is properly attached on its stand and that the stand will resist to the reaction force, in case of mobile monitor, make sure the suplied belt is strongly fixed to an anchor point. Ignoring this may cause important damage or be deadly.
(Reaction force : about 450 Kgs for 5000 l/min à 7 bar at the nozzle outlet).

Never face the jet or target someone, consequences may be deadly.

Please note that using the monitor may cause important damage in the area where the jet fall, make sure the area is securised before use.

• Dismantling and warranty :

Excepted special agreement, the warranty is valid for 1 year.

The bill of materials included in this document are note dismantling guide.

Dismantling the equipment outside POK factory cancel the warranty.

Do not modify the equipment it may not be working properly or be dangerous at use.

Only POK SA can repair and guarantee the equipment workink well and without danger.

If parts are changed outside POK factory, you must make the put back into service process to make sure everything is working well.

POK SA can’t be responsible of any damages cause following a dismantling outside its factory, modification or bad use of the equipment.

Characteristics included in this document may change form the product you’ve received. Contact our sales department for further details.

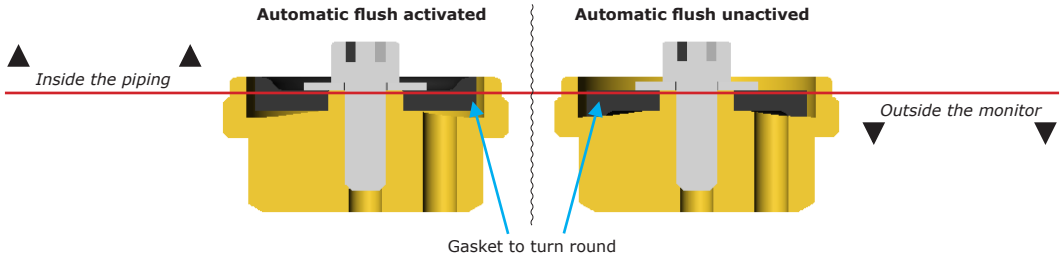
• Automatic flush :

(rep : 11, 10, 44, 43)

An automactic flush exists on the piping, it permits evacuate still water following a use. It works only when the inside presure is less than 0.4 bar (7 PSI). it may be usefull for transport or to avoid water to freeze inside. This system may be unactivated if necessary.

- Remove the sub-assembly automatic flush.
- Remove the screw, the washer and the gasket.
- Turn round the gasket and put back the washer and screw.
- Assemble the automatic flush with the monitor.

Sub-assembly automatic flush



• Installation (Mobile stand) :

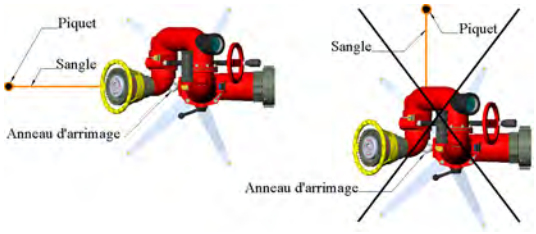
- 1 - Unfold the stabilizing leg, every pin must be in contact with the floor.
- 2 - Make sure the stabilizing leg locking pin is interlocked.
- 3 - Attach the monitor to an anchor point with the belt supplied (cf : anchor).

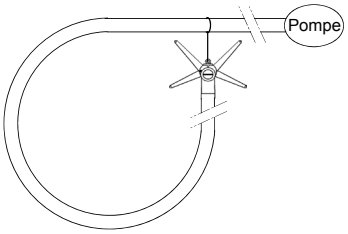
Note : The floor on which the stabilizing legs pins are in contact with, must be stable. For exemple, sand or mug will not offer a perfect adhesion and in rare cases, the monitor may slip or take off.

• Anchor :

The monitor must be attached to an anchor point with the belt supplied. The anchor must be placed in the axis between the monitor and the target.
In some case, for exemple with a vertical angle less than 35° or over 900, or because of an unstable floor, the monitor may slip or take off.

Anchor exemple :





Characteristics included in this document may change form the product you've received. Contact our sales department for further details.

• Use :

Before putting the monitor under pressure:
- 1 - Make sure no part are missing or damaged.
- 2 - Connect and make sure the monitor is properly connected to an alimentation hose. (There must be a straigh length of 5 meters behind the monitor).
- 3 - Make sure the outlet equipment is
- 4 - Make sure the stand is strong enough to resist to the reaction force or that the monitor is strangly attached to an anchor point with the belt supplied.
- 5 - Be sure that every security pin are interlocked.

For a best jet quality do no go over those value :

- Max flow rate : 7500 l/min (2000 GPM)
- working pressure : 7 bar (100 PSI)

Never target an area placed in the axis between the pump and the monitor inlet.

Do not target someone while the monitor is working.

Never point a the outlet elbow to an angle over 90° or less than 35°, if you use a mobile monitor.

If your monitor is equiped with a nozzle which has a spread jet position, make sure the area around the monitor is not sensitive to water projection, before using this position.

IMPORTANT : If you want to use assistance wheel, please unplug the binder plug which link engines to the receiver.
Using the steering wheel create an electric current with a high intensity which will damage the receiver.
Do not touch the pins of the binder plug while using the wheel, a deadly electric shock may occur.

Characteristics included in this document may change form the product you've received. Contact our sales department for further details.

• Cleaning the monitor :

To ensure the monitor will work well :
- 1 - Clean up the monitor with clear water after each use.
- 2 - If the monitor was used with charged water or sea water, make the monitor working with clear water to evacuate corrosive particles which could damaged inside components.
- 3 - Do not use corrosive product to clean up the monitor, it could damaged the gasket and create leacking.
- 4 - Try to move the mobile parts, no parts must be hard to move or be blocked.
- 5 - Visualy control the monitor to detect leacking.
- 6 - Do not use high pressure jet to clean up the monitor it may damaged the electronical parts.

• Spare parts :

Some parts as gaskets may need to be changed more often depending on the use and storage conditions.

Please contact our sales department to get information about after sales service, or to obtain spare parts.

Use the bill of materials in this document to identify the spare parts you need.

Note : The identification number may be required to know your eligibilty to warranty.

• Put back into service procedure :

You must do this procedure before putting back your equipment into service :
- 1 - Make sure not parts are missing.
- 2 - No parts must be damaged.
- 3 - Connect a hose.
- 4 - Put a cap on the outlet thread.
- 5 - Test the monitor, increase slowly the presure up to 16 bar (235 PSI) then look for eventual leacking.
- 6 - Put a nozzle on the outlet thread.
- 7 - Test the monitor in normal use conditions with a presure of 7 bar. Make sure every parts move as they should, noting must block. This must last 10 min.

If no problem have been encountered, the monitor may be put back into service.

Characteristics included in this document may change form the product you've received. Contact our sales department for further details.

• Greasing the monitor :

In order to preserve the equipment, we advise to grease the monitor.

It is important do to this operation every 6 months and to use only the type o grease given below :

Lithium grease
Brand : LUBRILOG
Code : STARGREASE LSK2

• Cleaning the transmitter and the receiver:

The receiver and the transmitter do not require special cleaning if storage conditions are optimal :

- **1 -** Do not store the monitor wet
- **2 -** Avoid places with a high condensation level.
- **3 -** Make sure the electronical parts and cable are away form rodents.
- **4 -** Do not charge batteries more than necessary.

While cleaning it is recommended to :

- **1 -** Do not use corrosive products.
- **2 -** Do not use high presure jet.

After each use :

- **1 -** Make sure everything is working well.
- **2 -** The command button must move properly.

Often make sure :

- **1 -** Every cable are properly connected.
- **2 -** The command system must work properly.

Characteristics included in this document may change form the product you've received. Contact our sales department for further details.